



FortiAnalyzer 3700G

Before you begin

Register your device to access FortiGuard updates, cloud management, firmware upgrades, technical support and warranty coverage.

<http://support.fortinet.com>



This guide covers: FAZ-3700G

October 13, 2021

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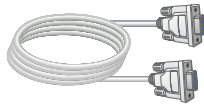
Package Contents



FortiAnalyzer 3700G



2x Power Cables



Console Cable



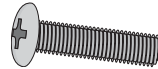
Ethernet Cable



2x M4 Flat Head Screws



8x M5 12L Flat Head Screws & Washers



2x M5 20L Truss Head Screws



QuickStart Guide



60x HDD

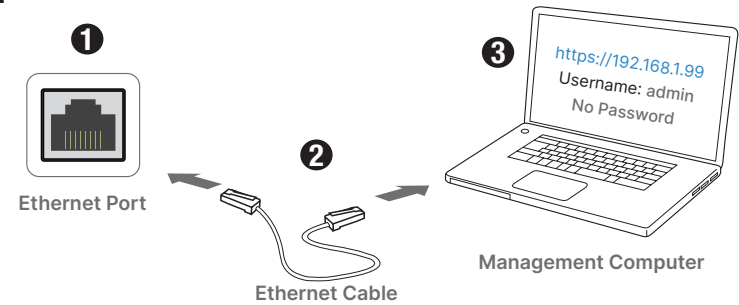


2x Rail-Mount Brackets

Setup

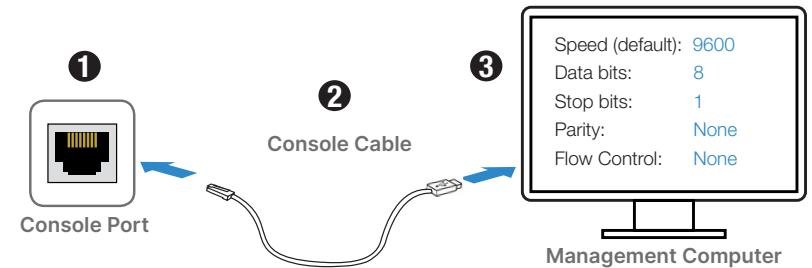
Unpack the box, power on your device and connect the Ethernet Port to an internet connection. Next, set up your Fortinet device using the GUI or CLI.

GUI



Note: For static IP configuration, use 192.168.1.1 with subnet mask 255.255.255.0

CLI



Note: For a detailed CLI guide, visit docs.fortinet.com

Rack Installation

Your device can be mounted in any standard 19 inch rack unit with the provided mounting hardware.

Please also read "Cautions and Warnings" at the end of this guide prior to installing your device.

Caution: The rack must be stabilized before sliding the unit out for servicing. Failure to stabilize may cause the rack to tip over.

Do not pick up the device with the front handles. They are designed to pull the system from a rack only.

Electrostatic discharge (ESD) can damage your Fortinet equipment.

To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

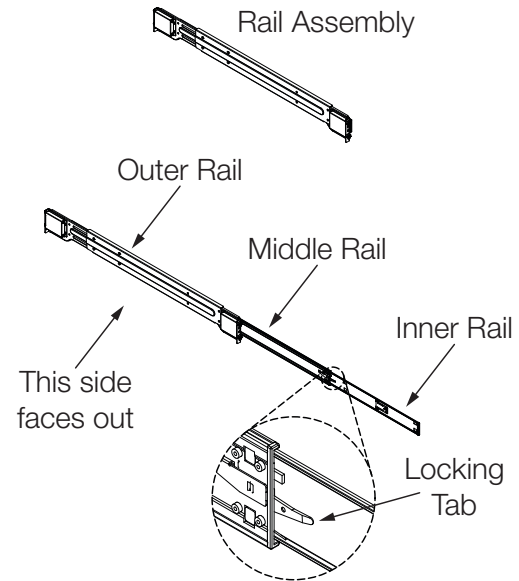
Do not place heavy objects on the unit.

Rack Precautions

- Ensure the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on the jacks.
- For single rack installation, stabilizers should be attached to the rack.
- For multiple rack installations, the racks should be coupled together.
- Ensure the rack is stable before extending a component from the rack.
- Only extend one component at a time; extending two or more simultaneously may cause the rack to become unstable.

Note: After installing the device into the rack, install the hard disk drives into the device.

Rack Rail Parts



The rail assembly consists of three parts:

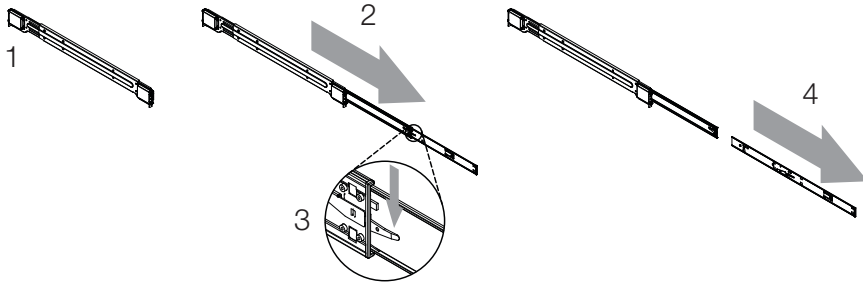
- **Outer rail:** connects to the rack
- **Middle rail:** connects the inner and outer rails
- **Inner rail:** connects to the device.

The inner rail has a locking tab that locks the device into place when it is installed and pushed into the rack. This prevents the device from sliding fully out of the rack when the device is being worked on.

There are four steps to install the device into the rack:

1. Disassemble the rail assembly
2. Attach the inner rails to the device
3. Install the outer rails on a rack
4. Install the device into the rack

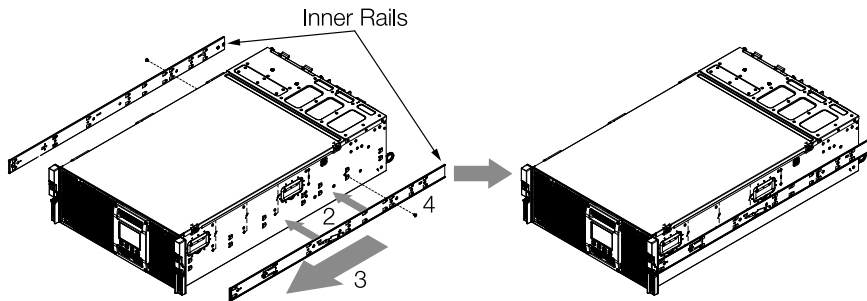
Disassemble the rail assembly:



1. Identify the left and right rail assemblies.
2. Pull out the inner rail until it is fully extended.
3. Press down the locking tab to release the inner rail.
4. Remove the inner rail from the outer rail.
5. Repeat steps 2 - 4 for the remaining rail assembly.

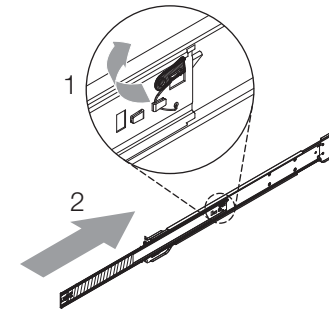
Caution: Do not pick up the server by the front handles. They are designed to only pull the unit from the rack.

Attach the inner rails to the device:

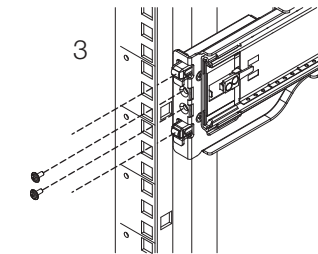


1. Ensure that the right and left rails are correctly identified.
2. Place the inner rail against the side of the device, ensuring that the hooks on the side of the device align with the holes in the rail.
3. Slide the rail towards the front of the device until the rail clicks into the locked position.
4. Optionally, secure the rail to the device using the provided M4 Flat Head screws.
5. Repeat steps 2 - 4 for the remaining rail.

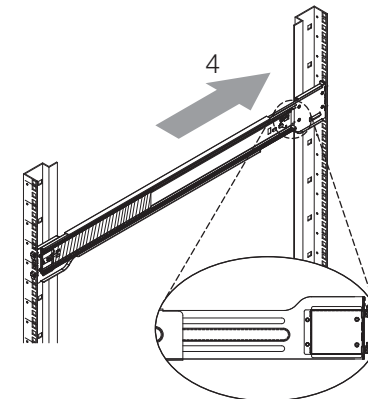
Install the outer rails on a rack:



1. Press up on the locking tab on the back of the middle rail.
2. Push the middle rail back into the outer rail.

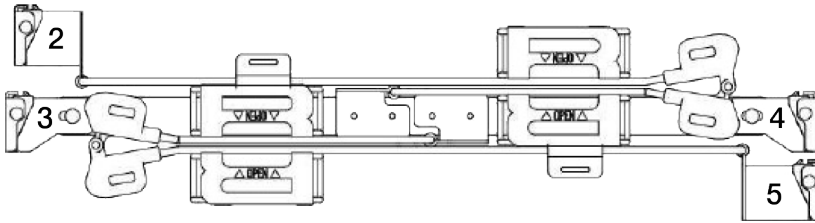


3. Hang the hooks on the front of the outer rail to the slots on the rack. Use two of the provided washers and M5 12L Flat Head screws to secure the rail to the rack.

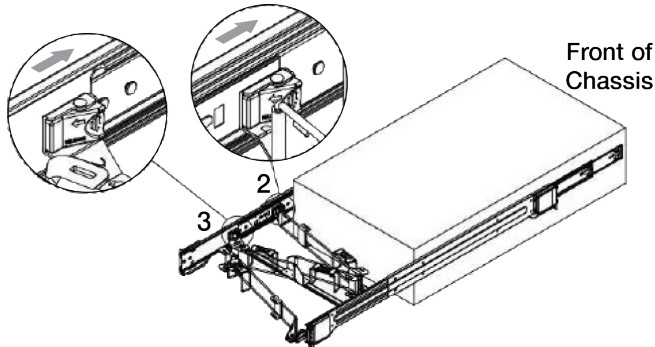


4. Pull out the back of the outer rail to adjust its length until it fits properly in the rack.
5. Hang the hooks on the back of the rail to the slots on the back of the rack. Use two of the provided washers and M5 12L Flat Head screws to secure the rail to the rack.
6. Repeat steps 1 - 5 for the remaining rail.

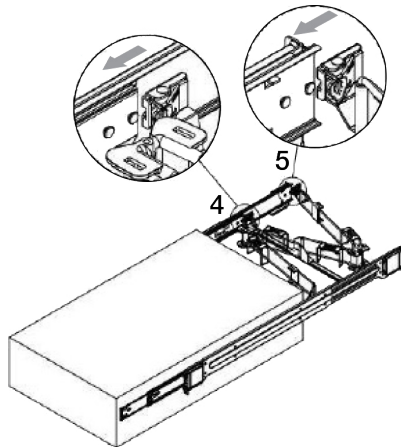
Install the cable management arm



1. Slide the device part way out of the rack to provide space for installing the cable management arm.
2. Attach the inner member connector to the back end of the right inner rail (when looking at the front of the device).
3. Attach the supporting bar connector to the back end of the right middle rail.

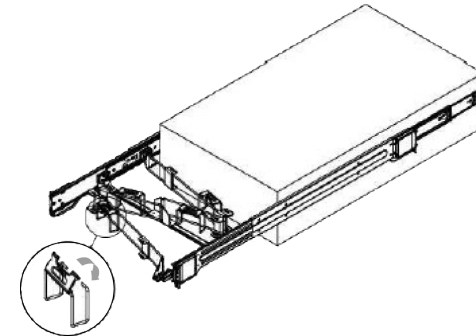


4. Attach the supporting bar connector to the back end of the left middle rail.
5. Attach the outer member connector to the back end of the left outer rail.

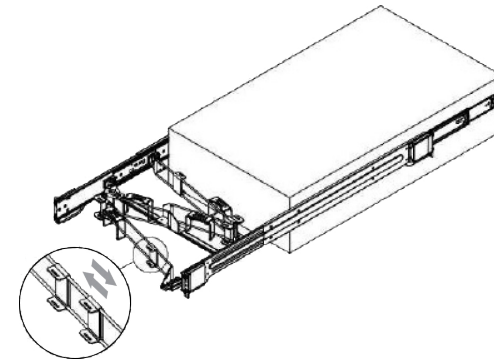


6. Plug the supplied power cables into the power supplies on the back of the device, and connect any other required cables.

7. Open the red caps and route the cables through the wire carrier. This is important to ensure that cables are not damaged when sliding the device in and out of the rack.



8. Fasten the cables using the provided straps and the aluminum joints and U bracket. Use two straps on each joint and one on each connector.
9. Slide the chassis in and out to ensure that the cable management arm's motion is smooth. If it is not, loosen the straps as required.
10. If required, adjust the location of the U bracket to ensure that it does not interfere with the power source.



Connect the device

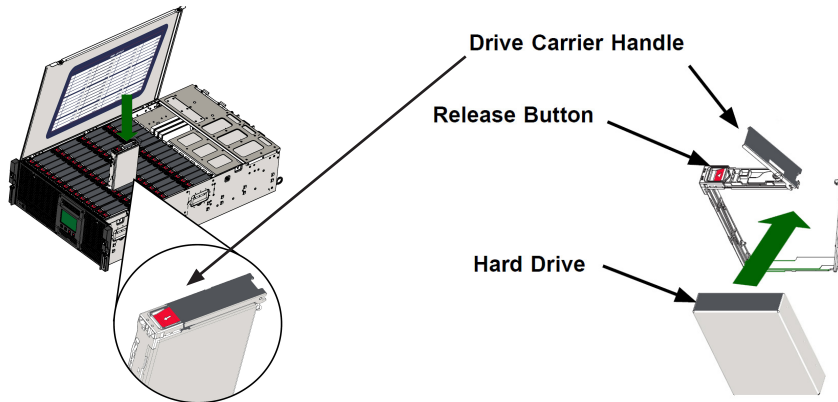
1. Plug the power cables into grounded electrical outlets or separate power sources, such as uninterruptible power supplies (UPS) or a power distribution units (PDU).
2. Insert the Ethernet cable into a router or switch that is connected to the Internet.
3. Press the power button on the system to turn on the device.

Note: For additional security, secure the chassis handles to the front of the rack with the provided M5 20L Truss Head screws.

Hard Drive Installation

This device supports 60 × 3.5" hard drives in toolless hard drive carriers. To install a hard drive:

1. Power down the system and disconnect the AC power cords
WARNING: Do not operate the device with drives removed, unless for short periods of time such as when hot-swapping hard drives



2. Open the top lid of the chassis
3. Remove a hard drive carrier
4. Press the release button on the drive carrier to retract the handle
5. Insert the hard drive into the carrier
6. Close the carrier handle
7. Push the carrier into the hard drive bay until it locks in position
NOTE: Match the labels on the hard drive and carrier as per the HDD LAYOUT

HDD LAYOUT											
1	Drive # 1	16	Drive # 16	31	Drive # 31	46	Drive # 46	61	Drive # 61	76	Drive # 76
2	Drive # 2	17	Drive # 17	32	Drive # 32	47	Drive # 47	62	Drive # 62	77	Drive # 77
3	Drive # 3	18	Drive # 18	33	Drive # 33	48	Drive # 48	63	Drive # 63	78	Drive # 78
4	Drive # 4	19	Drive # 19	34	Drive # 34	49	Drive # 49	64	Drive # 64	79	Drive # 79
5	Drive # 5	20	Drive # 20	35	Drive # 35	50	Drive # 50	65	Drive # 65	80	Drive # 80
6	Drive # 6	21	Drive # 21	36	Drive # 36	51	Drive # 51	66	Drive # 66	81	Drive # 81
7	Drive # 7	22	Drive # 22	37	Drive # 37	52	Drive # 52	67	Drive # 67	82	Drive # 82
8	Drive # 8	23	Drive # 23	38	Drive # 38	53	Drive # 53	68	Drive # 68	83	Drive # 83
9	Drive # 9	24	Drive # 24	39	Drive # 39	54	Drive # 54	69	Drive # 69	84	Drive # 84
10	Drive # 10	25	Drive # 25	40	Drive # 40	55	Drive # 55	70	Drive # 70	85	Drive # 85
11	Drive # 11	26	Drive # 26	41	Drive # 41	56	Drive # 56	71	Drive # 71	86	Drive # 86
12	Drive # 12	27	Drive # 27	42	Drive # 42	57	Drive # 57	72	Drive # 72	87	Drive # 87
13	Drive # 13	28	Drive # 28	43	Drive # 43	58	Drive # 58	73	Drive # 73	88	Drive # 88
14	Drive # 14	29	Drive # 29	44	Drive # 44	59	Drive # 59	74	Drive # 74	89	Drive # 89
15	Drive # 15	30	Drive # 30	45	Drive # 45	60	Drive # 60	75	Drive # 75	90	Drive # 90

Front



- 1 Power Button System power on and off

Reset Button System reset

- 2 System Indicators

Hard Disks

- Flashing Yellow: Hard disk activity
- Off: No hard disk activity

Information

- Red: Overheat condition has occurred
- Flashing Red (1Hz): Fan failure
- Flashing Red (0.25Hz): Power failure
- Blue: Local UID activated
- Flashing Blue: Remote UID activated
- Off: System normal

Power Failure

- Red: A power supply has failed
- Flashing Red: Hard disk failure
- Off: Normal operation

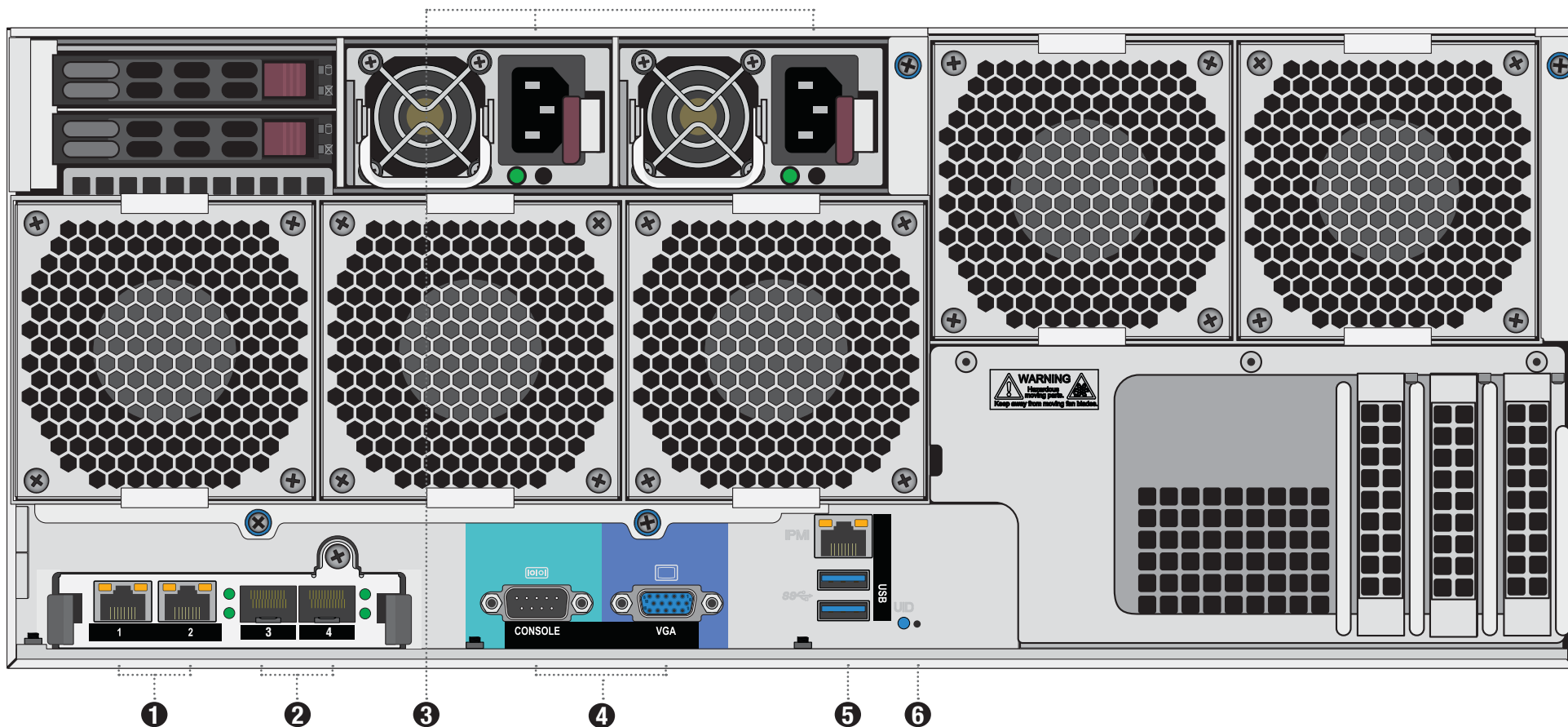
Ethernet Ports (Ports 1 & 2)

- Flashing Green: Data activity
- Off: Not connected

Power

- Green: System is powered
- Off: System is off

Rear



1 Ethernet Ports 1 & 2 (RJ45) 10 Gigabit Ethernet network connections

Link (Left LED)

- **Green:** Connected at 10 Gbps
- **Amber:** Connected at 1Gbps
- **Off:** Connected at 100Mbps or off

Activity (Right LED)

- **Green:** Link established
- **Flashing Green:** Data activity
- **Off:** Not connected

2 SFP+ Ports 3 & 4 (SFP+) 25Gbps/10Gbps network connections

Link (Top LED)

- **Green:** Connected at 25Gbps
- **Amber:** Connected at 10Gbps
- **Off:** Not connected

Activity (Bottom LED)

- **Green:** Link established
- **Off:** Not connected

3 Redundant* Power Supplies 100-240V AC, 50/60Hz, 12.1A Max

(*100-120V AC, both power supplies are required for normal operation; 200-240V AC, the power supplies are redundant)

- **Green:** Power supply operating normally
- **Amber:** Power supply failure
- **Off:** Power not connected

4 Console (DB9) CLI management connection

VGA (DB15) Not in use

5 IPMI (RJ45) Do not use. Please change the default password:

<https://cookbook.fortinet.com/changing-ipmi-password>

USB Ports (USB A) USB 3.0 server ports

6 UID Button Identifies device

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0°C to 40°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{amb}) specified by the manufacturer.
Température ambiante élevée – S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T_{amb}) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite – Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique – Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas lié à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
Surtenision – Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre – Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.
Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:
There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.
Dispose batteries of according to the manufacturer's instructions.
Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.
Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.
If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNING:
Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann.

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

CAUTION: Shock Hazard. Disconnect all power sources.
ATTENTION: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.
Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-003 (A) / NMB-003 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。
V C C I – A

Product Safety Electrical Appliance & Material (PSE) - Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fortinet.com/bsmi>

警告使用者：此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

請仔細閱讀以下說明

1. 本設備勿置於潮濕處。
2. 連接至電源前，請先檢查電壓。
3. 當設備不用時，請將所有電源線拔除，避免電壓不穩而造成傷害。
4. 勿將任何液體灑入設備中，避免線路短路。
5. 基於安全理由，只有受到專業訓練的從業人員，才可以打開本設備。
6. 請勿自行調整或修理已通電的設備，以確保您的安全。
7. 如不小心受傷，請立刻找急救人員給予您適當的救護，千萬別因傷勢輕微而忽略自己的傷勢。
8. 請依照台灣法規處置電池。
9. 若不正確替換電池可能導致爆炸危險，替換電池時，請使用設備生產商推薦使用的電池。
10. 請勿拆卸、刺穿或以其他方式損壞電池。
11. 雷射設備非用戶維修設備，請與生產商聯繫維修事宜。

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China

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

